

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/014301 A3

- (51) International Patent Classification⁷: **C12Q 1/00**, A61K 49/00
- (74) Agents: **SHAYESTEH, Laleh** et al.; Exelixis, Inc., P.O. Box 511, 170 Harbor Way, South San Francisco, CA 94083-0511 (US).
- (21) International Application Number:
PCT/US2003/024561
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 6 August 2003 (06.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/401,737 7 August 2002 (07.08.2002) US
60/428,872 25 November 2002 (25.11.2002) US
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **EX-ELIXIS, INC.** [US/US]; P.O. Box 511, 170 Harbor Way, South San Francisco, CA 94083-0511 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **TAI, Albert, K.** [US/US]; 27 Nordhoff Street, San Francisco, CA 94131 (US). **SONG, Chunyan** [CN/US]; 95 Behr Avenue #103, San Francisco, CA 94131 (US). **OLLMANN, Michael, Martin** [US/US]; 8 Odessa Court, Redwood City, CA 94063 (US). **GILLET, Lucile, A.** [US/US]; 640 Rocking Horse Court, Gardnerville, NV 89410 (US). **ADAMKEWICZ, Joanne, I.** [US/US]; 1249 Rhode Island Street, San Francisco, CA 94107 (US).
- Published:**
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- (88) Date of publication of the international search report:
8 July 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: PSMCs AS MODIFIERS OF THE RB PATHWAY AND METHODS OF USE

(57) Abstract: Human PSMC genes are identified as modulators of the RB pathway, and thus are therapeutic targets for disorders associated with defective RB function. Methods for identifying modulators of RB, comprising screening for agents that modulate the activity of PSMC are provided.



WO 2004/014301 A3